

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08935-301001	Application No. 10/761,415
		Applicant Todd E. Bofinger et al.	
		Filing Date January 22, 2004	Group Art Unit 1745

Information Disclosure Statement
by Applicant
(Use several sheets if necessary)

(37 CFR §1.98(b))

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>JP</i>	AA	345,124	07/06/1886	DeVirloy et al.			
	AB	4,279,972	07/21/1981	Moses			
	AC	4,401,735	08/30/1983	Moses et al.			
	AD	4,526,846	07/02/1985	Kearney et al.			
	AE	4,560,631	12/24/1985	Nishihama et al.			
	AF	4,904,552	02/27/1990	Furukawa et al.			
	AG	5,156,933	10/20/1992	Yamaguchi et al.			
	AH	5,523,073	06/04/1996	Sumida et al.			
	AI	5,595,841	01/21/1997	Suzuki			
	AJ	5,698,176	12/16/1997	Capparella et al.			
	AK	5,863,675	01/26/1999	Capparella et al.			
	AL	6,004,526	12/21/1999	Sugimoto et al.			
	AM	6,123,911	09/26/2000	Yamaguchi et al.			
	AN	6,383,683	05/07/2002	Nagayama et al.			
	AO	6,409,985	06/25/2002	Numata et al.			
	AP	6,440,181	08/27/2002	Bowden et al.			
	AQ	6,465,130	10/15/2002	Numata et al.			
	AR	6,576,215	06/10/2003	Numata et al.			
	AS	6,706,444	03/16/2004	Numata et al.			
	AT	6,821,678	11/23/2004	Sumida et al.			
	AU	2001/0024752	09/27/2001	Sumida et al.			
	AV	2003/0035997	02/20/2003	Numata et al.			
	AW	2004/0076881	04/22/2004	Bowden et al.			
<i>JP</i>	AX	2005/0112467	05/26/2005	Berkowitz et al.			

Examiner Signature <i>[Signature]</i>	Date Considered 8/14/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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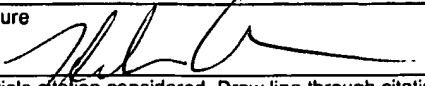
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
<i>PC</i>	AY	EP0373791B1	27.04.1994	Europe				
	AZ	EP0675079B1	07.07.1999	Europe				
	AAA	EP1043275A1	11.10.2000	Europe				
	ABB	EP1074514	07.02.2001	Europe				
	ACC	EP1094034A1	25.04.2001	Europe				
	ADD	EP1128452A1	13.04.2005	Europe				
	AEE	EP1128452B1	13.04.2005	Europe				
	AFF	EP1394876A1	03.03.2004	Europe				
	AGG	WO00/06496	10.02.2000	PCT			Abstract	
	AHH	WO00/32518	08.06.2000	PCT			Abstract	
	AII	WO00/61495	19.10.2000	PCT			Abstract	
<i>PC</i>	AJJ	WO02/084765	24.10.2002	PCT			Abstract	

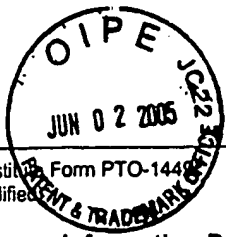
Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>PC</i>	AKK	Bowden, W. et al., "Lithiation of Ramsdellite-Pyrolusite MnO ₂ ; NMR, XRD, TEM and Electrochemical Investigation of the Discharge Mechanism", <i>ITE Letters on Batteries, New Technologies & Medicine</i> , Vol. 5, No. 3 (2004), 16-24
	ALL	Bowden, W. et al., "Manganese Dioxide for Alkaline Zinc Batteries: A Single-Phase Model", <i>ITE Letters on Batteries, New Technologies & Medicine</i> , Vol. 4, No. 1 (2003), 26-37
	AMM	Bowden, W. et al., "Manganese Dioxide for Alkaline Zinc Batteries: Why Electrolytic MnO ₂ ?", <i>ITE Letters on Batteries, New Technologies & Medicine</i> , Vol. 1, No. 6 (2000), 53-64
	ANN	Bowden, W. et al., "Lithiation of HEMD: NMR, XRD, TEM and Electrochemical Investigation of the Discharge Mechanism", <i>ITE Letters on Batteries, New Technologies & Medicine</i> , Vol. 3, No. 3 (2002), 26-50
	AOO	Bowden, W. et al., "Reduction of γ -MnO ₂ in Deuterium Media; MAS NMR and Electrochemical Studies", <i>ITE Letters on Batteries, New Technologies & Medicine</i> , Vol. 4, No. 2 (2003), 19-28
	APP	Bowden, W. et al., "Lithiation of Ramsdellite-Pyrolusite MnO ₂ ; NMR, XRD, TEM and Electrochemical Investigation of the Discharge Mechanism", <i>Battery and Fuel Cell Materials</i> , Extended Abstracts of the Battery and Fuel Cell Materials Symposium (Austria), April 18-22, 2004, 109-110
<i>PC</i>	AQQ	Burns, R. et al., "Structural Relationships Between the Manganese (IV) Oxides", <i>Manganese Dioxide Symposium</i> , Cleveland, Ohio (1975), 306-327

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HC	ARR	Chabre, Y. et al., "Structural and Electrochemical Properties of the Proton/ γ -MnO ₂ System", <i>Prog. Solid St. Chem.</i> , Vol. 23 (1995), 1-130
	ASS	Falk & Salkind, "Alkaline Storage Batteries", John Wiley & Sons, Inc., 1969, pp. 1-41
	ATT	Linden, D., <u>Handbook of Batteries</u> , (McGraw-Hill, 2d ed. 1995), "1.4 Classification of Cells and Batteries", pp. 1.9-1.11; "7.1 General Characteristics and Applications of Primary Batteries", pp. 7.3-7.7; "23.1 General Characteristics and Applications of Secondary Batteries", pp. 23.3-23.12
	AUU	Shen, X. et al., "Phase Transitions and Ion Exchange Behavior of Electrolytically Prepared Manganese Dioxide", <i>Journal of Solid State Chemistry</i> 64, 270-282 (1986)
	AVV	Thompson, A.H., "Electrochemical Potential Spectroscopy: A New Electrochemical Measurement", <i>J. Electrochem. Soc.</i> (April 1979), 608-616
	AWW	Bofinger et al., USSN 10/951,936, filed 09/28/2004
	AUU	Bowden et al., USSN 11/123,428, filed 05/06/2005
	AVV	Berkowitz et al., USSN 10/675,512, filed on Sept. 30, 2003
ph	AZZ	Totir et al., USSN 10/800,905, filed on March 15, 2004

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U.S. Patent Documents

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JS	AA	5,532,084	07/02/96	Wang et al.			
JS	AB	5,391,365	02/21/95	Wang et al.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
JS	AL	WO 99/59215	11/18/90	PCT				
JS	AM	0 624 552	11/17/94	EPO				
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

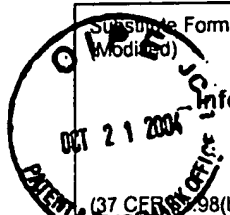
Examiner Initial	Desig. ID	Document
JS	AQ	Ilchev et al., "Lithiated Manganese Dioxide for Primary LiMnO ₂ Batteries", ITE Letters on Batteries, New Technologies & Medicine, Vol. 2, No. 3, pp. 52-61 (2001)
	AR	
	AS	
	AT	

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

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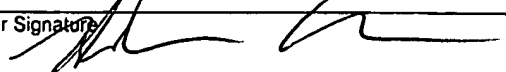
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	AM							
	AN							
	AO							
	AP							

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Examiner Initial	Desig. ID	Document
	AQ	Bowden, W. et al., "Lithiation of HEMD: NMR, XRD, TEM and Electrochemical Investigation of the Discharge Mechanism," <i>ITE Letters</i> , 3, B1 (2002), 312-336.
	AR	Thackeray, M.M., "Manganese Oxides for Lithium Batteries", <i>Progress in Batteries & Battery Materials</i> , Vol. 14 (1995), 1-85.
	AS	
	AT	

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<i>He</i>	AA	4,133,856	01/09/1979	Ikedo et al.			
	AB	4,758,484	07/19/1988	Furukawa et al.			
	AC	4,921,689	05/01/1990	Walker et al.			
	AD	4,959,282	09/25/1990	Dahn et al.			
	AE	5,277,890	01/11/1994	Wang et al.			
	AF	5,348,726	09/20/1994	Wang et al.			
	AG	5,482,796	01/09/1996	Wang et al.			
	AH	5,658,693	08/19/1997	Thackeray et al.			
	AI	6,190,800	02/20/2001	Ilchev et al.			
	AJ	6,403,257	06/11/2002	Christian et al.			
	AK						

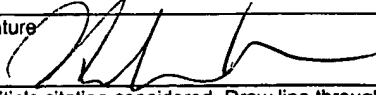
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
<i>He</i>	AL	EP0037053	03/24/1981	Europe				
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>He</i>	AQ	Hill, L.I. et al., "Electrochemical Synthesis of Beta- and Gamma-Manganese Dioxides under Hydrothermal Conditions," <u>Electrochem. Solid-State Lett.</u> , Vol. 4, 2001, pp. D1-D3
	AR	Hunter, J.C., "Preparation of a New Crystal Form of Manganese Dioxide: λ -MnO ₂ ," <u>J. Solid State Chemistry</u> , Vol. 39, 1981, pp. 142-147
	AS	Larcher, D. et al., "Low Temperature Synthesis of γ -Li ⁺ MnO ₂ Powders in Ethylene Glycol," <u>International Journal of Inorganic Materials</u> , Vol. 4, 2000, pp. 389-396
<i>He</i>	AT	Read, J. et al., "Low Temperature Performance of λ -MnO ₂ in Lithium Primary Batteries," <u>Electrochem. Solid State Lett.</u> , Vol. 4, 2001, pp. A162-5.

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AU	AU	Thackeray, M.M., "Manganese Oxides for Lithium Batteries," <u>Prog. Solid St. Chem.</u> , Vol. 25, pp. 1-71, 1997
	AV	
	AW	

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